

EXHIBIT 4

Applicants: Jan Wendelin Stark, et al.
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Partial Translation

JP Patent Application Disclosure No. 2003-139869 – 14 May 2003

Application No. 2001-333236 – 30 October 2001

Applicant: CITIZEN WATCH CO., LTD, Tokyo (JP)

Title: EXTERIOR COVERING OF RADIO CONTROLLED WATCH
AND METHOD OF MANUFACTURING THE SAME

[Claims]

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[Claim 5] The exterior covering of the radio controlled watch described in claim 3 or claim 4, characterized in that the watch case or the watch case and the back cover is molded by a powder injection molding method, wherein 20 to 25 parts by weight of a binder is contained upon the injection molding with respect to 100 parts by weight of zirconia powder, and the binder is composed of at least two of polyethylene, polypropylene, polystyrene, ethylene vinyl acetate, butyl methacrylate, polyacetal, wax, and stearic acid.

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EXTERIOR FINISH OF RADIO CONTROLLED WATCH AND ITS MANUFACTURING METHOD

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Inventor(s): MATSUO JIRO; HANAI KENJI; MIYA YUKIO; NAOI KOICHI; TANAKA YOSHIYA; YOSHIOKA KENICHI; IKEDA IENOBU +

Applicant(s): CITIZEN WATCH CO LTD +

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- **international:** G04B37/22; C04B35/48; C04B41/89; G04B37/00; C04B35/48; C04B41/89; (IPC1-7): G04B37/22; C04B35/48; C04B41/89

- **European:**

Application number: JP20010333236 20011030

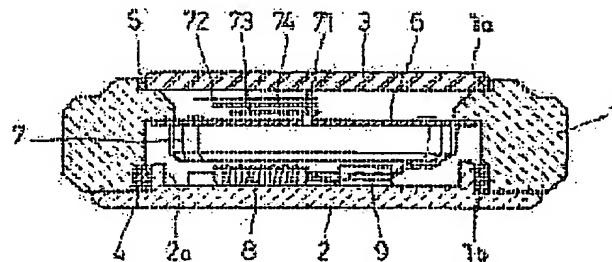
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Abstract of JP 2003139869 (A)

PROBLEM TO BE SOLVED: To allow a radio controlled watch to receive a time signal radio wave with high sensitivity even if the antenna of the radio controlled watch is arranged in a watch case and to allow the radio controlled watch to have high-class sense, high durability, and a color tone that is rich in decoration properties. **SOLUTION:** In the exterior finish of a radio controlled watch where an antenna 8 is arranged inside or outside the watch case the radio controlled watch case 1 or the base of the watch case 1 and a rear lid 2 is made of ceramics, and a middle layer by dry plating and a decoration coating layer by dry plating are provided on the surface of the base and on the surface of the middle layer, respectively.



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